Access DB# 179085

#1

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Sm J. Lee Examiner #: 76060 Date: 2-8-2006
Art Unit: 1752 Phone Number 30 2-1333 Serial Number: 10/803,393
Mail Box and Bldg/Room Location: 9D60 (Rem.) Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Plz. See B-6.

Inventors (please provide full names):

Earliest Priority Filing Date:

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

SCIENTIFIC REFERENCE BR
Sci & Tech Inf. Ctr.
FEB 9 RECU
Pat. & T.M. Office

Please search for an oligomer compound of the formula shown in Cl. # 21.

(Please do not limit search)

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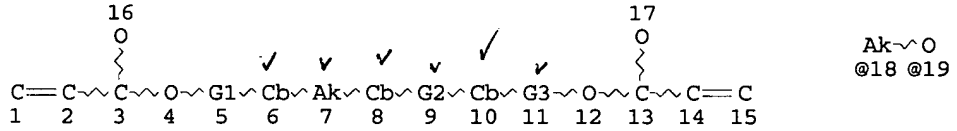


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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
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STEREO ATTRIBUTES: NONE
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L12  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2005:429684  HCAPLUS
DOCUMENT NUMBER:          142:490133
TITLE:                    Dichroic guest-host polarizer comprising an
                          oriented polymer film
INVENTOR(S):              Lub, Johan; Peeters, Emiel; Broer, Dirk J.
PATENT ASSIGNEE(S):       Koninklijke Philips Electronics N. V., Neth.
SOURCE:                   PCT Int. Appl., 40 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

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             ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
             KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
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             LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG,
             CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:                    EP 2003-104099      A
                                                                   2003
                                                                   1106

AB   A dichroic guest-host polarizer comprises an oriented polymerized liquid
     crystal host and aligned therewith a dichroic guest.  The dichroic
     ratio of the polarizer is .apprx.15 or more.  The polarizer may
     have a small thickness (< 10 μm), be manufactured using a wet
     deposition method, optionally in accordance with a desired
     pattern, and be provided on the inside of a liquid crystal cell.
     Polymerizable liquid crystals having a highly ordered mesophase
     which may be suitably used to obtain highly oriented polymer films
     such as polarizer films are disclosed.
IT   852056-63-4P
     RL: DEV (Device component use); SPN (Synthetic preparation); PREP
     (Preparation); USES (Uses)
        (dichroic guest-host polarizer comprising an oriented polymer
        film)
RN   852056-63-4  HCAPLUS
CN   Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
     4-[2-[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl]ethyl]phenyl
     ester (9CI)  (CA INDEX NAME)
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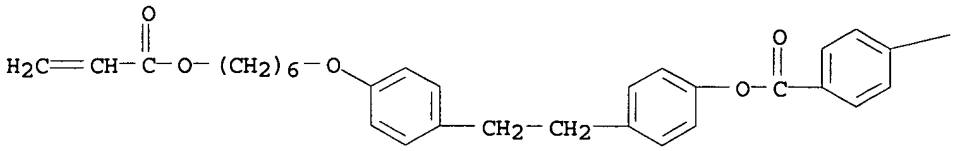
PAGE 1-A



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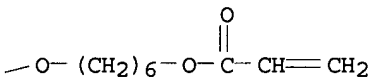


IC ICM G02B005-30
ICS C09K019-00; G02F001-1335
CC 73-11 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
Section cross-reference(s): 75
IT 852056-57-6P **852056-63-4P**
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(dichroic guest-host polarizer comprising an oriented polymer film)
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:75474 HCAPLUS
DOCUMENT NUMBER: 142:186921
TITLE: Polymerizable liquid crystal compound having optically active 1-alkylethylene or 1-oxo-2-alkylethylene bonding group for display device
INVENTOR(S): Sasata, Yasuyuki; Yanai, Motoki; Yamamoto, Shinichi
PATENT ASSIGNEE(S): Chisso Corp., Japan; Chisso Petrochemical Corporation
SOURCE: Jpn. Kokai Tokkyo Koho, 75 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005023019	A2	20050127	JP 2003-190323	2003 0702
PRIORITY APPLN. INFO.:			JP 2003-190323	2003 0702

OTHER SOURCE(S): MARPAT 142:186921
AB Disclosed is the polymerizable liquid crystal compound represented by Ra-Y-(A-Z)m-A-Y-Rb or Rc-Y-(A-Z)m-A-Y-Rc (Ra-c = sp. chemical formula; Y = single bond, C1-20 alkylene; A = 1,4-cyclohexylene; Z

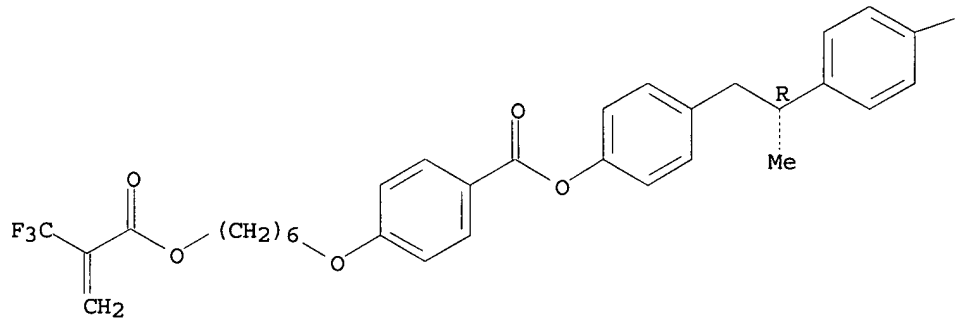
= sp. chemical formula; and m = integer 1-6). The use of said liquid crystal compound provided large helical force and optical transparency when it is sued for the liquid crystal display device.

IT **832098-36-9 832098-37-0**
RL: NUU (Other use, unclassified); USES (Uses)
(polymerizable liquid crystal compound having optically active 1-alkylethylene or 1-oxo-2-alkylethylene bonding group for display device)

RN 832098-36-9 HCAPLUS
CN Benzoic acid, 4-[[6-[[1-oxo-2-(trifluoromethyl)-2-propenyl]oxy]hexyl]oxy]-, 4-[(2R)-2-[4-[[6-[[1-oxo-2-(trifluoromethyl)-2-propenyl]oxy]hexyl]oxy]phenyl]propyl]phenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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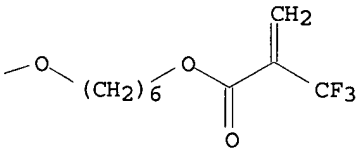
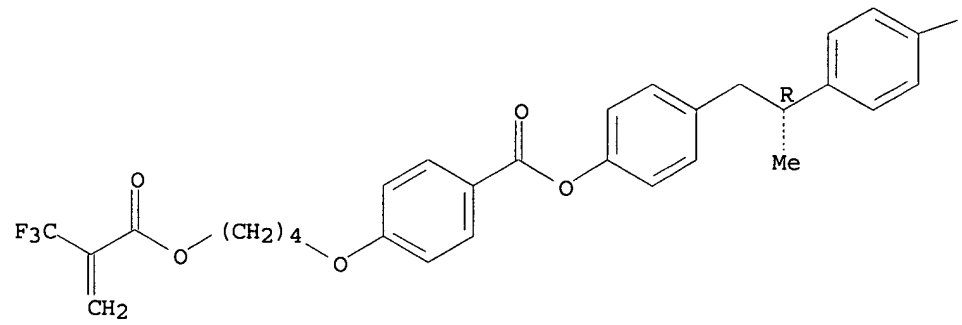


RN 832098-37-0 HCAPLUS
CN Benzoic acid, 4-[4-[[1-oxo-2-(trifluoromethyl)-2-propenyl]oxy]butoxy]-, 4-[(2R)-2-[4-[4-[[1-oxo-2-(trifluoromethyl)-2-propenyl]oxy]butoxy]phenyl]propyl]phenylester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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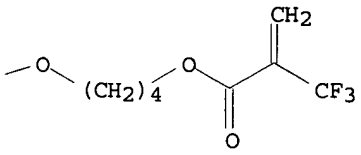

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CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 25, 38, 75

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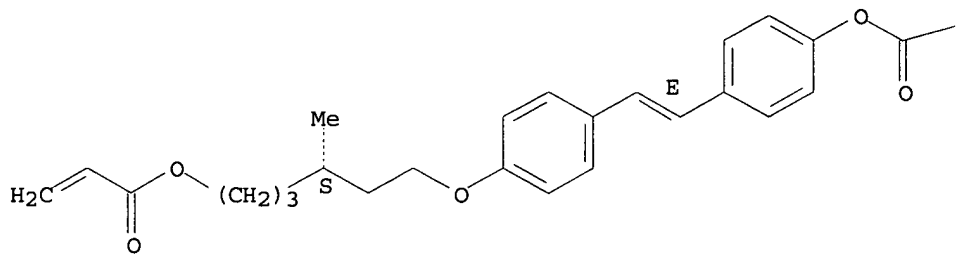
832098-42-7
RL: NUU (Other use, unclassified); USES (Uses)
(polymerizable liquid crystal compound having optically active 1-alkylethylene or 1-oxo-2-alkylethylene bonding group for display device)

L12 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:743860 HCAPLUS
DOCUMENT NUMBER: 140:67575
TITLE: Synthesis and properties of chiral stilbene diacrylates
AUTHOR(S): Lub, J.; Ferrer, A.; Larossa, C.; Malo, B.
CORPORATE SOURCE: Philips Research Laboratories, Eindhoven, 5656 AA, Neth.
SOURCE: Liquid Crystals (2003), 30(10), 1207-1218
CODEN: LICRE6; ISSN: 0267-8292
PUBLISHER: Taylor & Francis Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Two chiral and isomerizable liquid crystalline diacrylates were synthesized. The purpose of these compds. was to tune the helical twisting power of cholesteric materials containing these compds. by means of an E-Z photoisomerization of the photoactive group derived from stilbene. The photochem. behavior of these compds. was studied with the aid of two model compds. containing the same isomerizable mesogenic group. The mesogenic group derived from 4-(4-hydroxybenzoyloxy)-4'-hydroxystilbenedecomps. upon irradiation Its isomer, derived from 4-(4-hydroxyphenoxycarbonyl)-4'-hydroxystilbene, shows a clean E-Z isomerization. The HTP of the chiral diacrylate derived from the latter mesogenic group changes from 7 to 3 μm-1 in dilute nematic solution Color changes in a cholesteric material containing this compound were observed The effect was very dependent on temperature and concentration due to the strong smectic character of this diacrylate.
IT **638166-99-1P 638167-00-7P 638167-15-4P**
638167-20-1P 638167-51-8P 638167-52-9P
638167-53-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis and properties of chiral stilbene diacrylates)
RN 638166-99-1 HCAPLUS
CN Benzoic acid, 4-[[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 4-[(1E)-2-[4-[[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl]ethenyl]phenylester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



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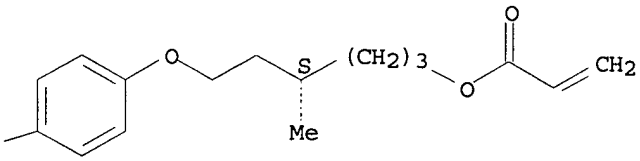

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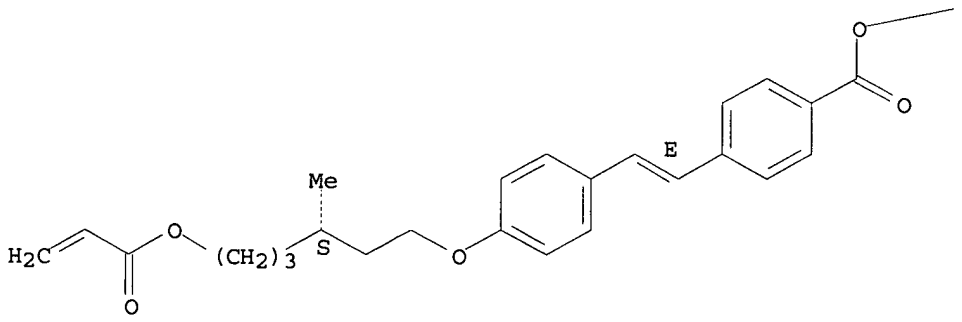
Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



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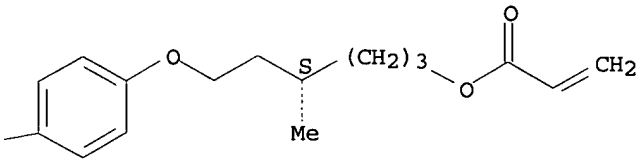

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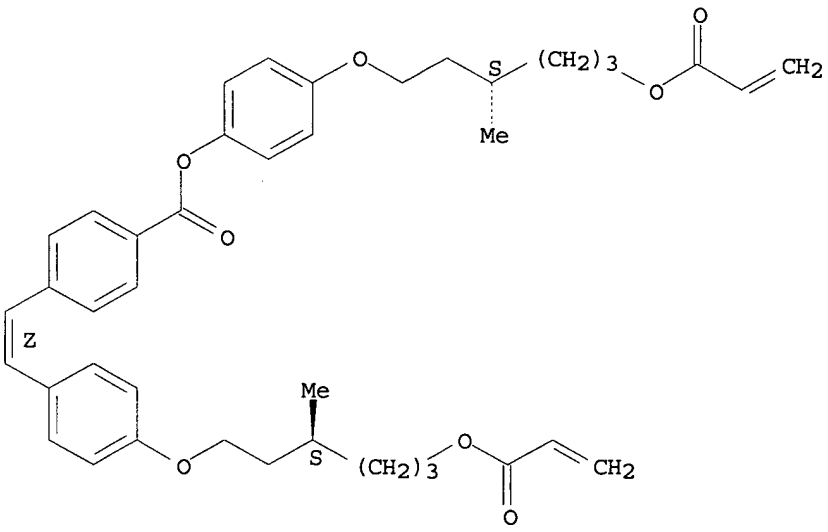
Absolute stereochemistry.
Double bond geometry as shown.



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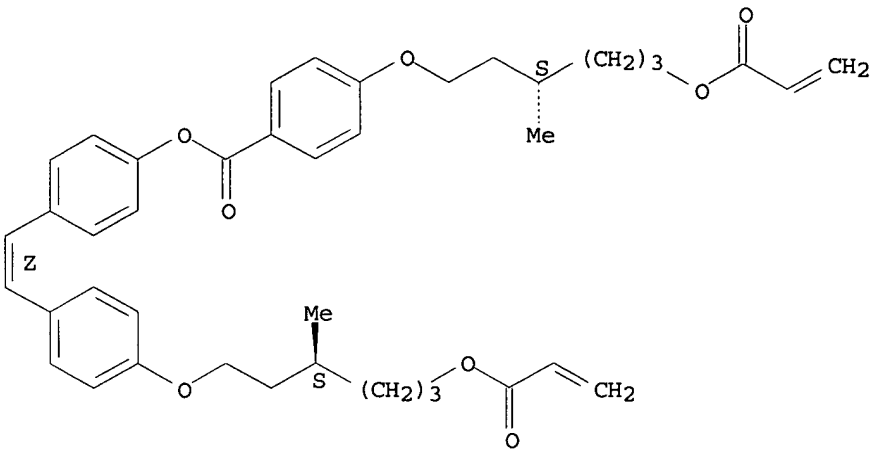
Absolute stereochemistry.
Double bond geometry as shown.



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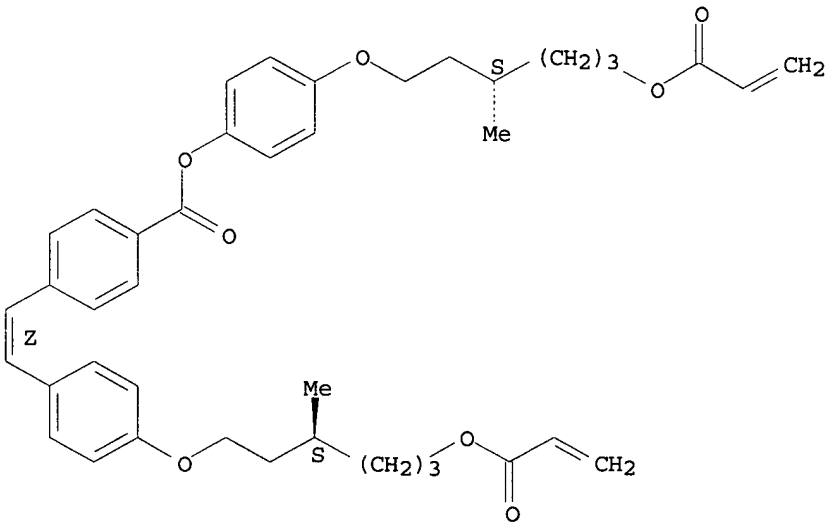
CRN 638167-15-4
CMF C41 H48 O8

Absolute stereochemistry.
Double bond geometry as shown.



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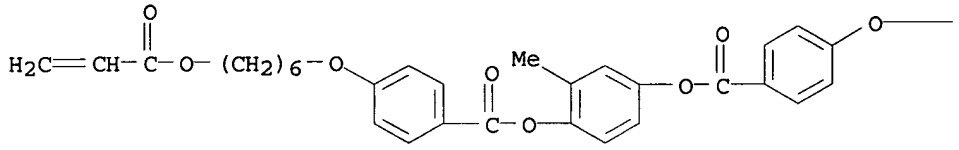

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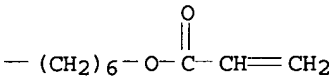

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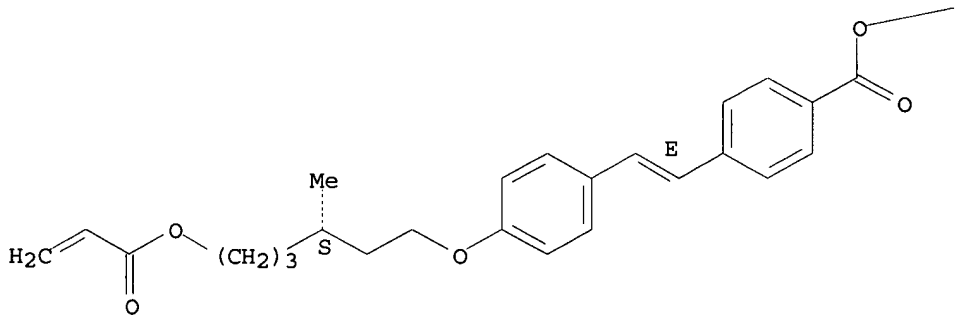
CN Benzoic acid, 4-[(1E)-2-[4-[[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl]ethenyl]-, 4-[[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl ester, mixt. with 2-methyl-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 638167-00-7
CMF C41 H48 O8

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



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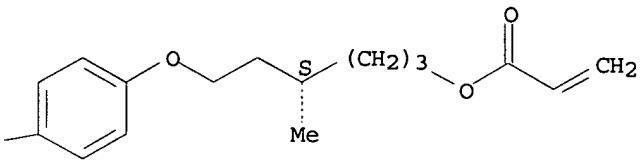
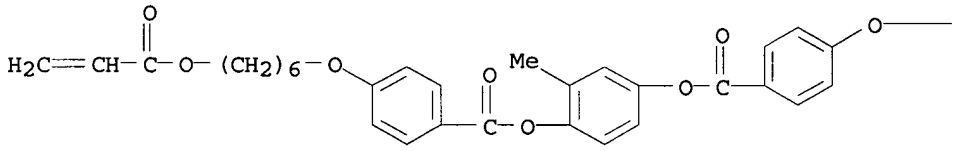


CM 2

CRN 125248-71-7
CMF C39 H44 O10

PAGE 1-A



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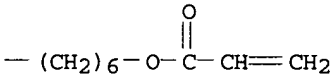
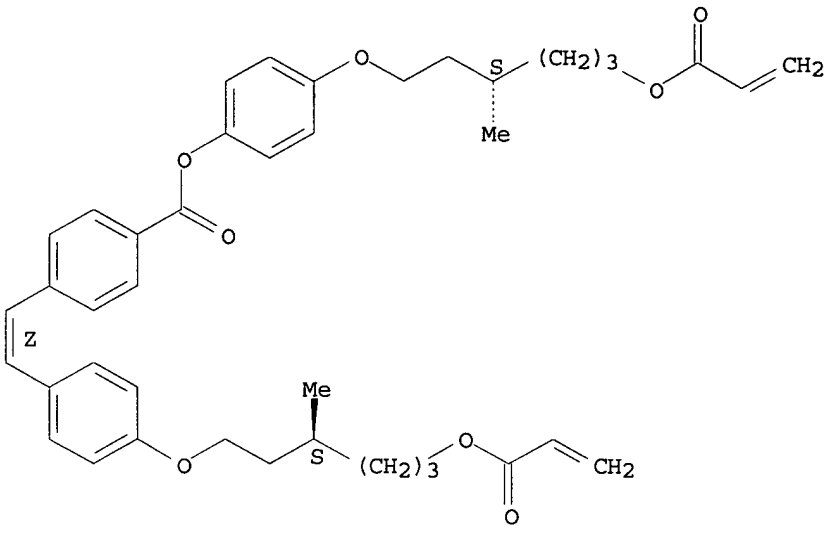


RN 638167-53-0 HCAPLUS
CN Benzoic acid, 4-[[3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester, mixt. with 4-[[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl 4-[(1Z)-2-[4-[[(3S)-3-methyl-6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]phenyl]ethenyl]benzoateand 2-methyl-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 638167-15-4
CMF C41 H48 O8

Absolute stereochemistry.
Double bond geometry as shown.



CM 2

CRN 360563-72-0
CMF C41 H48 O10

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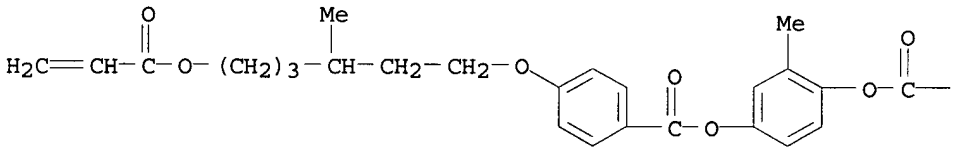

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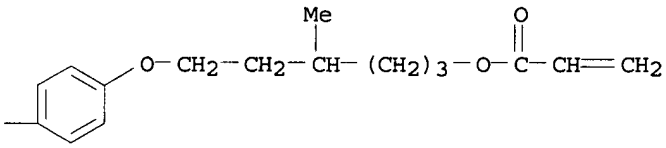

CM 3

CRN 125248-71-7
CMF C39 H44 O10

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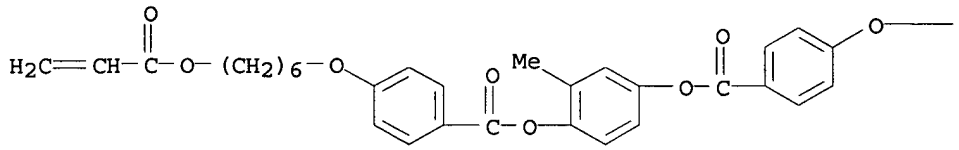

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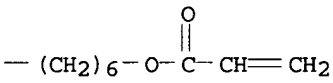

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 75

IT **638166-99-1P 638167-00-7P** 638167-07-4P
638167-08-5P 638167-09-6P **638167-15-4P**
638167-20-1P 638167-21-2P **638167-51-8P**
638167-52-9P 638167-53-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis and properties of chiral stilbene diacrylates)

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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